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Claims

- 1. A method of determining an analyte in a sample comprising the steps of:
- a) contacting the sample with a specified amount of a receptor which binds specifically to the analyte to form an analyte/receptor complex, said specified amount of receptor being in excess of that required to bind all analyte in the sample,
- b) isolating on a solid phase a specified fraction of the amount of receptor
 contacted with the analyte, including analyte/receptor complex and unreacted receptor,
 - c) detecting the amount of analyte/receptor complex in said isolated specified fraction, and
- from the detected amount analyte/receptor complex, determining the concentration of analyte in the sample.
 - 2. The method according to claim 1 in which the sample has a high concentration.
 - 3. The method according to claim 1 or claim 2 in which the sample is undiluted.
- 4. The method according to claims 1 to 3, wherein isolating said specified fraction of the amount of receptor contacted with the sample on the solid phase comprises providing a solid phase having binding sites for the receptor, and after contacting the sample, or an aliquot thereof, with a liquid phase containing the receptor, binding said specified fraction of receptor to the solid phase.
 - 5. The method according to claim 4, wherein the whole amount of receptor has reactivity towards said binding sites on the solid phase, and the receptor-binding

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capacity of the solid phase is less than the solid-phase-binding capacity of receptor contacted with the sample.

- 5 6. The method according to claim 4, wherein only a specified fraction of the amount of receptor contacted with the sample has reactivity towards said binding sites on the solid phase.
- 7. The method according to claims 1 to 3, wherein isolating said specified fraction of the amount of receptor on the solid phase comprises contacting the sample with a specified amount of receptor, a specified fraction of which amount is immobilized to said solid phase and the remaining amount of receptor being in a liquid phase.
 - 8. The method according to any one of claims 1 to 6, wherein the receptor comprises a first part that binds specifically to the analyte, and a second part that binds to the solid phase.
 - 9. The method according to claim 8, wherein the solid phase binding part of the receptor comprises one member of a specific binding pair, and the other member of the binding pair is immobilized to the solid phase.
 - 10. The method according to any one the preceding of claims, wherein in step c) the analyte/receptor complex is detected by a labelled detection reagent which binds specifically to the analyte.
 - 11. The method according to any one of the preceding claims, wherein the ratio between said isolated fraction of the amount of active analyte-binding receptor and the total amount of active analyte-binding receptor contacted with the sample is in the range

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of from about 1:2 to about 1:1000, preferably from about 1:5 to about 1:100, particularly no more than about 1:20.

- 5 12. The method according to any one of the preceding claims, wherein said solid phase binding sites for the receptor are immobilized in a reaction zone of a flow matrix, preferably a lateral flow matrix, such as a membrane strip.
- 10 13. The method according to any one of the preceding claims, wherein the receptor is an antibody or an immunoactive fragment thereof.
 - 14. The method according to any one of the preceding claims, wherein the detection reagent is an antibody or an immunoactive fragment thereof.
 - 15. The method according to any one of the preceding claims, wherein the detection reagent is labelled by a fluorophore or a chromophore.
 - 16. The method according to any one of the preceding claims, wherein the specific binding pair is biotin-avidin or biotin-streptavidin.
 - 17. The method according to any one of the preceding claims, wherein the sample is an undiluted serum sample.
- 30 18. The method according to any one of claims 1 to 16, wherein the sample is an undiluted whole blood sample.